

Abstract of the Disclosure

A synchronization establishing apparatus in a spectrum spread communication system, includes a search section, a frequency offset estimating section and a demodulation path selecting section. The search section calculates correlation values from a received spectrum spread signal, and calculates power values as addition values of symbols corresponding to the correlation values and power addition values of the power values. Also, the search section selects larger ones of the power addition values to output together with timing data corresponding to the selected larger power addition values. At this time, one of the symbols and the power values being corrected in phase based on phase change quantities. The frequency offset estimating section estimates frequency offsets from one of the correlation values and the power values and demodulation timing data and calculates the phase change quantities from the estimated frequency offsets to output to the search section. The demodulation path selecting section selects path timings from the timing data based on the selected larger power addition values and outputs the demodulation timing data indicative of the path timings to the frequency offset estimating section.